



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,393	02/06/2004	Jin-Won Kim	P56929	5028
7590 Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005			EXAMINER TIV, BACKHEAN	
			ART UNIT 2151	PAPER NUMBER
			MAIL DATE 09/11/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

***Response to Arguments***

Applicant's arguments filed 8/26/08 have been fully considered but they are not persuasive.

The applicant argues in substance,

a) Xu in view of Mamkos in further view of Nyu does not teach, "said client transmitting a PPPoE Active Discovery Initiation packet to said server if said client becomes disconnected from said server in a manner other than by transmission of PPOE Active Discovery Terminate packets between said client and server",

b) Xu in view of Mamkos in further view of Nyu does not teach, "packet received from said server, following the transmission of said PPPoE Active Discovery Initiation (PADI) packet, packet received from said server was a PADO (PPPoE Active Discovery Offer) packet",

c) Xu in view of Mamkos in further view of Nyu, "said client extracting a session-ID from said packet received from said server when it is determined that the packet received from said server is the session packet",

d) Xu in view of Mamkos in further view of Nyu, "client transmitting a new PADI packet to said server to reconnect said server and said client, when said client receives the server transmitted PADT packet".

The applicant is reminded that, arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413,

208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

***In reply to a);*** Xu, para. 0043, teaches a PPPoE client sends a PPPoE active discovery initiation (PADI) packet to the broadcast Ethernet address, therefore Xu teaches sending a PADI to a server. Xu, para.0061, teaches a scenario of a lost connection. One ordinary skill in the art would interpret this as disconnecting from a server in a manner other than by transmission of PADT packets between said client and said server. Therefore, Xu, teaches, "said client transmitting a PPPoE Active Discovery Initiation packet to said server if said client becomes disconnected from said server in a manner other than by transmission of PPOE Active Discovery Terminate packets between said client and server".

***In reply to b);*** Xu, para.0043-0044,0065, teaches receiving a PADI at a concentrator and sending a reply of a PADO packet, the client may receives more than one PADO packet in response to the PADI packet. The client picks the access concentrator to which it would like to start a session. Inherently, the client determines which packets are being received since it can determine different PADO packets, therefore Xu teaches, " packet received from said server, following the transmission of said PPPoE Active Discovery Initiation (PADI) packet, determine whether the received from said server was a PADO packet or session packet".

***In reply to c);*** Nyu, para.0052, teaches a controller extracting a session identifier in the session ID field, therefore teaches, "said client extracting a session-ID from said packet received from said server when it is determined that the packet received from

said server is the session packet", furthermore, the applicant admits on pg.8-9 of the Remarks, that extracting a session-ID and loading it into a PADT packet is not new/novel.

***In reply to d);*** Mamakos, pag.5, section 5.5, teaches a PADT packet can be sent anytime after a session is established to indicate that a PPPoE session has been terminated. Xu, para.0063, teaches once a modem receives a PADT packet it disconnect any connections that exists and prepare to accept a new connection. Xu, para. 0043, teaches a client sending PADI packet in order to initiate discovery. Therefore, one ordinary skill in the art would send a new PADI packet to a server to reconnect after a PADT packet is receive in order to re-establish a connection between the client and server.